

ON TODAY'S AGENDA

- ▶ Deterioration Mechanisms of Paper
- ▶ Care and Handling of Books
- ▶ Care and Handling of Paper
- ▶ Resources





PAPER MAKING

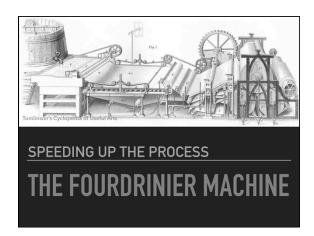
PAPER MAKING BY HAND

- Rags softened by fermentation (retting)
- Rotted fibers stamped to create individual fibers
- Fibers dispersed in water to create slurry
- Mold and deckle dipped into slurry to form sheets
- Sheets couched between felt and pressed
- ➤ Wet sheets hung to dry
- Dry sheets sized with gelatin

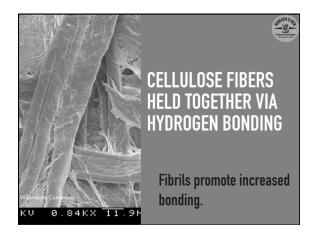
HISTORY DRIVES CHANGE

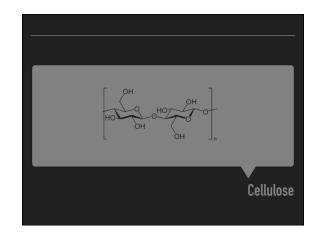
- ▶ The industrial revolution increased the need for inexpensive paper.
- $\,\blacktriangleright\,$ This led to improvements in the paper making process.
 - ▶ Paper making machines
 - ▶ Wood pulp paper
 - ▶ Alum rosin size

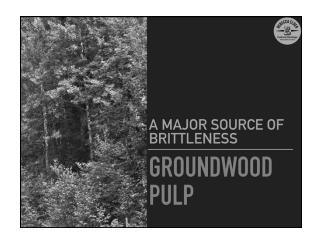


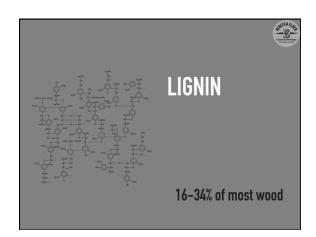








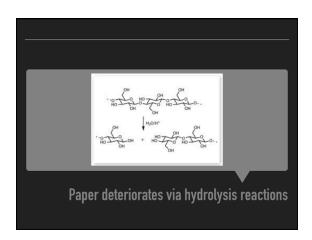




PAPER ADDITIVES

- ▶ Whiteners
- ▶ Brighteners
- ▶ Filler
- Wet strength additives
- Sizes
 - ▶ Gelatin
 - Alum rosin



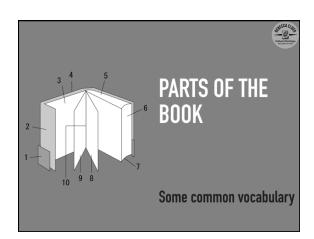


A NOTE ABOUT ACIDIC PAPER

- ▶ Prevalent from mid-18th century until 1960s-70s.
- The more acidic your paper, the more hydrolysis reactions you have.
- The more hydrolysis reactions you have, the more brittle your paper.
- But just because paper is brittle does not mean that it is in immediate danger.







COMMON FORMS OF DAMAGE TO BOOKS

- ▶ Textblock separates from the case
- ▶ Damage to top of spine
- Detached covers
- ▶ Torn pages
- ▶ Torn endsheets



SHELVING BOOKS

- Make sure that books are straight up and down on the shelves.
- Use bookends to keep shelves tidy and books from leaning.
- Shelve books by size
- If a book is too large to fit on the shelf shelve spine down or with oversized materials.
- Remove books from shelf by pushing the volumes on either side back and pulling from the spine.
- Avoid wooden shelving

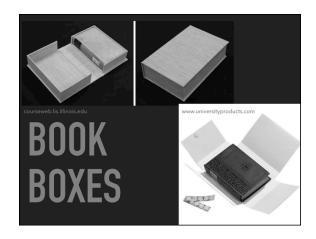


SHELVING OVERSIZED BOOKS

- Oversized books should be shelved horizontally.
- Ideally, shelve no more than three high.
- Shelve the largest book on the bottom.
- Remove individually to reach books at bottom.
- ▶ Always transport on book trucks



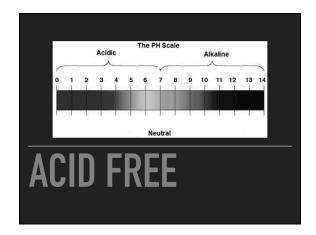
USING BOOKS How does the book open?

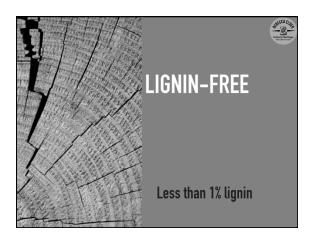


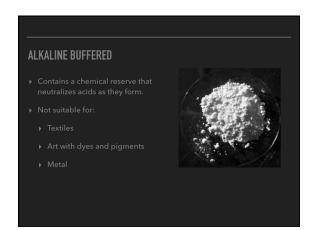
CARE AND HANDLING
PAPER

STORAGE ENCLOSURES SHOULD BE MADE OUT OF MATERIALS THAT ARE DURABLE AND CHEMICALLY STABLE.

Important to remember







ONE WORD: PLASTICS • 3 acceptable plastics • Polyester (Mylar) • Polypropylene • Polyethylene • Never use polyvinyl chloride (PVC). Hollinger Metal Edge

THE CLOSER THE ENCLOSURE IS TO THE COLLECTION ITEM, THE MORE IMPORTANT QUALITY BECOMES.

A rule of thumb

LAYERS OF SUPPORT

- ▶ Primary box
- ▶ Secondary folder
- ▶ Tertiary sleeve





OVERSIZED BOXES Drop front boxes with telescoping lids are best. Use for oversized and extremely fragile materials. Come in a range of sizes large enough to hold unfolded newspapers. gaylord.com



FOLDERS FOR BOXES AND FLAT FILES Can be standard folder stock or reinforced. Choose folders slightly smaller than boxes Consider the application and sturdiness of folders.



HOUSING LOOSE PAPER

- Make sure your boxes and folders are in good condition.
- ▶ Place paper into folders before putting into boxes.
- Make sure your boxes are properly filled.
- ▶ Always label boxes in pencil.
- ▶ Separate oversized documents and store flat.
- A separation slip will help you maintain archival order.



ROLLED DOCUMENTS

- Flat storage is preferable to rolled storage.
- ▶ Roll around acid-free tubes
- Wrap in acid-free paper or Mylar to protect from dirt.
- ▶ Shelve flat



RESOURCES

- ▶ THC's Collections Care for Small Museums resource list
- Sustainable Heritage Network
- ▶ Ritzenthaler's Preserving Archives and Manuscript
- ▶ Harvey & Marhard's The Preservation Management



THANK YOU!

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